



Bi-directional, six-axle, low floor articulated light rail vehicle constructed of low alloy high tensile (LAHT) steel and composite materials.

Low floor area comprises 70% of the interior and extends between the end trucks through the articulated center section.

Modern, spacious interior ensuring maximum visibility and safety. Passenger interior air conditioning and heating to accommodate to local climatic conditions. Seating is primarily knee-to-back.

Eight sliding-plug passenger doors, four per side directly across from one another and located in the low floor area. Four doorways equipped with automatic movable bridge-plates meeting ADA requirements.

Modern passenger information system consisting of automated announcements, public address, passenger-operator intercom and electronic destination signs.

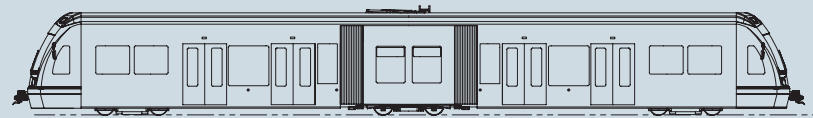
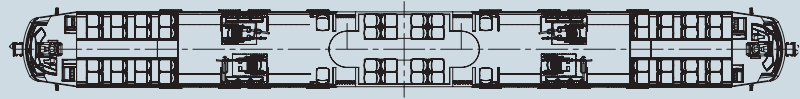
Vehicle delivered with train-wayside communication (TWC) equipment.

Propulsion is provided by a modern, state-of-the-art AC-IGBT system, with four motors per car, pulse controlled inverters and microprocessor vehicle control logic. Dynamic and hydraulic friction brakes are provided, as well as track brakes.

| Performance and Capacity | | |
|--|---|-----------------------|
| Maximum operational speed: | 55 mph | 88.5 km/h |
| Maximum allowable speed: | 71.5 mph | 120 km/h |
| Service acceleration and deceleration: | 3.0 mphps | 1.34 m/s ² |
| Emergency braking rate: | 5.21 mphps | 2.33 m/s ² |
| Passenger capacity: | 64 seats | |
| | Approx. 221 total passengers | |
| | 4 wheelchair spaces and 2 bicycle racks | |
| Maximum operational gradient: | 6% | |
| Motor power rating: | 174 hp x 4 | 130 kW x 4 |
| Catenary supply voltage: | 600 Vdc | |

S70 Light Rail Vehicle

San Diego, California



Vehicle Dimensions and Weight

| | | |
|---------------------------------------|---------------------------------------|------------------------|
| Length over coupler: | 90.7 ft | 27670 mm |
| Width: | 8.7 ft | 2650 mm |
| Height with pantograph (locked down): | 12.7 ft | 3870 mm |
| Maximum pantograph height: | up to 23 ft | 7010 mm |
| Vehicle empty weight: | 95700 lbs (AW0) | 43409 kg |
| High floor section above TOR: | 2.2 ft (with 1 step plus slight ramp) | 669 mm |
| Low floor section above TOR: | 1.3 ft (center) | 396 mm (center) |
| | 1.2 ft (threshold) | 356 mm (threshold) |
| Minimum turning radius: | 82 ft | 25 m |
| Vertical curve, crest: | 820 ft | 250 m |
| Vertical curve, sag: | 1150 ft | 350 m |
| Track gauge: | 4.7 ft | 1435 mm |
| Wheel base: | 6.2 ft (power trucks) | 1900 mm (power trucks) |
| | 5.9 ft (center truck) | 1800 mm (center truck) |

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